The 1N295 is a point contact germanium diode designed for use in general purpose rectifier applications and in video detector circuits in television receivers. The 1N295 is particularly applicable where high rectification efficiencies, small size, absence of heater voltage and resistance to changes in humidity and temperature are important. Operable at temperatures up to 100°C, it can be heated as high as 125°C with no irreversible change in characteristics. The 1N295 has extremely uniform electrical characteristics and reliable mechanical stability.

**MECHANICAL DATA**

TERMINALS: Dumet wire, Tinned to within 1/8" of barrel
Diameter: 0.017" max. Length: 1" min.

TERMINAL CONNECTIONS: White Band at Cathode Terminal

MOUNTING POSITION: Any

PLUG-IN EQUIVALENT: Available as 1N295-P

**ELECTRICAL DATA**

**RATINGS - ABSOLUTE MAXIMUM VALUES:** (at 25°C)

- Inverse Voltage: 40 volts
- Average Rectified Current: 35 mA
- Peak Rectified Current: 125 mA
- Surge Current (for 1 sec.): 300 mA
- Ambient Temperature Range: -50 to +100°C

**CHARACTERISTICS:** (at 25°C)

- Maximum Inverse Current at +10 volts: 200 μA
- Minimum Reverse Voltage for Zero Dynamic Resistance: 50 volts
- Minimum DC Output Current: 375 μA

\* At 50 Mc in circuit shown below:

\[ L = \text{Such value as to resonate at 50 Mc with a Q of 30.} \]
TYPICAL STATIC CHARACTERISTICS (at 25°C)

- Reverse Voltage - Volts
  -12 -10 -8 -6 -4 -2

- Forward Voltage - Volts
  -100 -200 -300

- Forward Current - mA
  1 2

- Reverse Current - mA
  -1 2